

0590

10/12 OIPE

#2

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/866,261

DATE: 06/14/2001

TIME: 11:17:20

Input Set : N:\Crf3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

3 <110> APPLICANT: Johnson, Eric S.  
 4 Pham, Thuy D.

W--> 5 <120> TITLE OF INVENTION: Viral Detection System

W--> 6 <130> FILE REFERENCE: D6161

8 <140> CURRENT APPLICATION NUMBER: 09/866,261

9 <141> CURRENT FILING DATE: 2001-05-25

11 <150> PRIOR APPLICATION NUMBER: US 09/159,325

12 <151> PRIOR FILING DATE: 1998-09-23

14 <150> PRIOR APPLICATION NUMBER: US 60/061,287

15 <151> PRIOR FILING DATE: 1997-10-07

W--> 16 <160> NUMBER OF SEQ ID: 26

18 <210> SEQ ID NO: 1

19 <211> LENGTH: 205

20 <212> TYPE: DNA

21 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae

W--> 22 <220> FEATURE:

23 <223> OTHER INFORMATION: Subgroup A of the avian leukosis/sarcoma virus.

W--> 24 <400> SEQUENCE: 1

25 ctacagctgt taggttccca gtctctccct aacattacta atattactca gatctccggt 60

26 gtaaccgggg gatgcgtagg cttcaggcca aaaggggttc cttggtatct gggtttgtct 120

27 agacaggaag ccacgcggtt tctccttaga cgccctctt tctctaactc ctcgaaaccg 180

28 ttacagtgg tgaacgcgga taggc 205

30 <210> SEQ ID NO: 2

31 <211> LENGTH: 229

32 <212> TYPE: DNA

33 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae

W--> 34 <220> FEATURE:

35 <223> OTHER INFORMATION: Subgroup B of the avian leukosis/sarcoma virus.

W--> 36 <400> SEQUENCE: 2

37 ctacaactgc taggttccca gtctctcccc aatataacta atattactcg gatccccagt 60

38 gtggctggag gatgcatagg ctttacccca tacgatagtc cggctggtgt ctacggatgg 120

39 gaccggagag aggttacaca catccttctg accgacccag ggaacaatcc tttctttgat 180

40 aaggcctcta actcctcgaa accgtttaca gtagtgacag cggacaggc 229

42 <210> SEQ ID NO: 3

43 <211> LENGTH: 211

44 <212> TYPE: DNA

45 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae

W--> 46 <220> FEATURE:

47 <223> OTHER INFORMATION: Subgroup C of the avian leukosis/sarcoma virus.

W--> 48 <400> SEQUENCE: 3

49 ctgcagctgc taggttccca gtctctccct aacgttacta acattactca ggtctctggc 60

50 gtggccgggg gatgtgtata tttcgcccca agggccactg gcctgttttt aggttgggtct 120

51 aaacaagggtc tctcgcggtt cctcctccgt cacccttta cctccacctc taactccacg 180

52 gaaccgttca cgggtgtgac agcggataga c 211

54 <210> SEQ ID NO: 4

55 <211> LENGTH: 229

56 <212> TYPE: DNA

ENTERED

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/866,261

TIME: 11:17:20

Input Set : N:\Crf3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

```

57 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 58 <220> FEATURE:
59 <223> OTHER INFORMATION: Subgroup D of the avian leukosis/sarcoma virus.
W--> 60 <400> SEQUENCE: 4
61 ctgcagctgt taggtctcca gtctctccct aatatcgcta atattactca gatccctggt 60
62 gtggcaggag gatgcatagg cttcaccca tacggcagtc cggtggtgt ttacgggtgg 120
63 ggccgggaag aggtgacaca catcctctta accaaccacc ctgataatcc tttctttaac 180
64 cgtgcttcta actccacgga accgtttacg gtggtgacag cggataggc 229
66 <210> SEQ ID NO: 5
67 <211> LENGTH: 228
68 <212> TYPE: DNA
69 <213> ORGANISM: Avian leukosis/sarcoma virus of the family Retroviridae
W--> 70 <220> FEATURE:
71 <223> OTHER INFORMATION: Subgroup E of the avian leukosis/sarcoma virus.
W--> 72 <400> SEQUENCE: 5
73 ctacagctgc taggttcca gtctctccct aacattacta atattactca gatttctggt 60
74 gtaaccgggg gatgcgtagg cttcgcccca cactccaatc caagtgggtgt ctacgggtgg 120
75 ggccggagac aggttacaca caacttcttg atcgccccgt ggttcaatcc tttctttaac 180
76 agcgttcta actccacgga accgttacgg tggtgacagc ggataggc 228
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 202
80 <212> TYPE: DNA
81 <213> ORGANISM: Single Comb White Leghorn chicken
W--> 82 <220> FEATURE:
83 <223> OTHER INFORMATION: PCR product Fb2, or 2F, isolated from egg albumin of ALSV-
84 positive stock F chicken
W--> 85 <400> SEQUENCE: 6
86 acagctgtta ggttcccagt ttttcctcac attattaata ttactcaaatt ttctggtgta 60
87 accggaggag gcgtaggctt tagaccagga gggatcccct ggtatatagg atggactaga 120
88 caggaagcca cacggttctt ccttagacaa tctctctttt ctaattccac ggaaccattt 180
89 acggtggtga cagcgatag gc 202
91 <210> SEQ ID NO: 7
92 <211> LENGTH: 22
93 <212> TYPE: DNA
94 <213> ORGANISM: artificial sequence
W--> 95 <220> FEATURE:
96 <221> NAME/KEY: primer_bind
97 <223> OTHER INFORMATION: Forward primer PA1 specific for the detection of viral
98 subgroup A of avian/leukosis sarcoma virus.
W--> 99 <400> SEQUENCE: 7
100 ctacagctgt taggttcca gt 22
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: artificial sequence
W--> 107 <220> FEATURE:
108 <221> NAME/KEY: primer_bind
109 <223> OTHER INFORMATION: Reverse primer PA2 specific for the detection of viral
110 subgroup A of avian/leukosis sarcoma virus.

```

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/866,261

TIME: 11:17:20

Input Set : N:\Crf3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

```

W--> 111 <400> SEQUENCE: 8
      112 gcctatccgc tgtcaccact g                21
      114 <210> SEQ ID NO: 9
      115 <211> LENGTH: 202
      116 <212> TYPE: DNA
      117 <213> ORGANISM: Single Comb White Leghorn chicken

W--> 118 <220> FEATURE:
      119 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 2F chicken.

W--> 120 <400> SEQUENCE: 9
      121 acagctgtta ggttcccagt ttttccctca cattataata ttactcaaat ttctggtgta 60
      122 accggaggag gcgtaggctt tagaccagga gggatcccct ggtatatagg atggactaga 120
      123 caggaagcca cacggttcct ccttagacaa tcctcctttt ctaattccac ggaaccattt 180
      124 acggtggtga cagcggatag gc                202
      126 <210> SEQ ID NO: 10
      127 <211> LENGTH: 226
      128 <212> TYPE: DNA
      129 <213> ORGANISM: Single Comb White Leghorn chicken

W--> 130 <220> FEATURE:
      131 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 6F chicken.

W--> 132 <400> SEQUENCE: 10
      133 cagctgttag gttcccagtc tctccctaac attactaata ttactcagat ttctggtgta 60
      134 actgggggat gcgtaggctt caccacacac tccaatccaa gtggtgttta cgggtggggc 120
      135 cggagacagg ttacacacaa cctcttgatc gccccgtggg tcaatccttt cttaaacagc 180
      136 gcttctaact ccacggaacc gtttacggtg gtgacagcgg ataggc                226
      138 <210> SEQ ID NO: 11
      139 <211> LENGTH: 225
      140 <212> TYPE: DNA
      141 <213> ORGANISM: Single Comb White Leghorn chicken

W--> 142 <220> FEATURE:
      143 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 7Q chicken.

W--> 144 <400> SEQUENCE: 11
      145 cagctgttag gttcccagtt tctccctaac attattaata ttactcagat ttctggtgta 60
      146 actgggggat gcgtaggctt caccacacac tccaatccaa gtggtgttta cgggtggggc 120
      147 cggagacagg ttacacacaa cttcttgatc gccccgtggg tcaatccttt cttaaacagc 180
      148 gcttctaact ccacggaacc gtttacggtg gtgacagcgg atagg                225
      150 <210> SEQ ID NO: 12
      151 <211> LENGTH: 229
      152 <212> TYPE: DNA
      153 <213> ORGANISM: Single Comb White Leghorn chicken

W--> 154 <220> FEATURE:
      155 <223> OTHER INFORMATION: RT-PCR product from egg albumin of stock 10Q chicken.

W--> 156 <400> SEQUENCE: 12
      157 ctacagctgt taggttccca gtctctccct aacattacta atattactca gatttctggt 60
      158 gtaaccgggg gatgcgtagg cttcgcccca cactccaatc caagtgggtg ctacgggtgg 120
      159 ggccgggagac aggttacaca caacttcttg atcgccccgt gggatcaatcc tttctttaac 180
      160 agcgcttcta actccacgga accgtttacg gtggtgacag cggataggc                229
      162 <210> SEQ ID NO: 13
      163 <211> LENGTH: 224
      164 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/866,261

TIME: 11:17:20

Input Set : N:\CrF3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

```

165 <213> ORGANISM: unknown
W--> 166 <220> FEATURE:
167 <223> OTHER INFORMATION: RT-PCR product from egg albumin of commercial chicken from
168 randomly chosen grocery store # 205.
W--> 169 <400> SEQUENCE: 13
170 gctgttaggt tcccagtctc tccctaacaat tactaatatt actcagattt ctggtgtaac 60
171 cgggggatgc gtaggcttca cccacactc caatccaagt ggtgtttacg ggtggggccg 120
172 gagacaggtt acacacaact tcttgatcgc cccgtgggtc aatcctttct ttaacagcgc 180
173 ttctaactcc acggaaccgt ttacggtggt gacagcggat aggc 224
175 <210> SEQ ID NO: 14
176 <211> LENGTH: 203
177 <212> TYPE: DNA
178 <213> ORGANISM: unknown
W--> 179 <220> FEATURE:
180 <223> OTHER INFORMATION: RT-PCR product from egg albumin of commercial chicken from
181 randomly chosen grocery store # 65.
W--> 182 <400> SEQUENCE: 14
183 tacagctggt aggttcccag tctctcccta acattactaa cataactcaa tttctggtgt 60
184 aaccggagga tgcgtaggct ttagaccagg agggatcccc tggatatatg gatggactag 120
185 acaggaagcc acacggttcc tccttaaaaca atcctccttt tctaattcca cggaaccatt 180
186 tacggtggtg acagcggata ggc 203
188 <210> SEQ ID NO: 15
189 <211> LENGTH: 21
190 <212> TYPE: DNA
191 <213> ORGANISM: artificial sequence
W--> 192 <220> FEATURE:
193 <221> NAME/KEY: primer_bind
194 <222> LOCATION: 5564..5585
195 <223> OTHER INFORMATION: Forward primer PU1 specific for the detection of viral
196 subgroup A-E of avian/leukosis sarcoma virus. Position
197 corresponds to the numbering of the RNA genome of the
198 Prague C strain of RSV.
W--> 199 <400> SEQUENCE: 15
200 ctrcarctgy taggytccca g 21
202 <210> SEQ ID NO: 16
203 <211> LENGTH: 21
204 <212> TYPE: DNA
205 <213> ORGANISM: artificial sequence
W--> 206 <220> FEATURE:
207 <221> NAME/KEY: primer_bind
208 <222> LOCATION: 5772..5791
209 <223> OTHER INFORMATION: Reverse primer PU2 specific for the detection of viral
210 subgroup A-E of avian/leukosis sarcoma virus. Position
211 corresponds to the numbering of the RNA genome of the
212 Prague C strain of RSV.
W--> 213 <400> SEQUENCE: 16
214 gycaycactg tcgcctrtcc g 21
216 <210> SEQ ID NO: 17
217 <211> LENGTH: 20

```

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/866,261

TIME: 11:17:20

Input Set : N:\Crf3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

```

218 <212> TYPE: DNA
219 <213> ORGANISM: artificial sequence
W--> 220 <220> FEATURE:
221 <221> NAME/KEY: primer_bind
222 <222> LOCATION: 5642..5661
223 <223> OTHER INFORMATION: Forward primer PA10 specific for the detection of viral
224     subgroup A of avian/leukosis sarcoma virus. Position
225     corresponds to the numbering of the RNA genome of the
226     Prague C strain of RSV.
W--> 227 <400> SEQUENCE: 17
228 ggcttcaggc caaaaggggt                20
230 <210> SEQ ID NO: 18
231 <211> LENGTH: 22
232 <212> TYPE: DNA
233 <213> ORGANISM: artificial sequence
W--> 234 <220> FEATURE:
235 <221> NAME/KEY: primer_bind
236 <222> LOCATION: 5858..5879
237 <223> OTHER INFORMATION: Reverse primer PA20 specific for the detection of viral
238     subgroup A of avian/leukosis sarcoma virus. Position
239     corresponds to the numbering of the RNA genome of the
240     Prague C strain of RSV.
W--> 241 <400> SEQUENCE: 18
242 gtgcattgcc acagcggtac tg                22
244 <210> SEQ ID NO: 19
245 <211> LENGTH: 20
246 <212> TYPE: DNA
247 <213> ORGANISM: artificial sequence
W--> 248 <220> FEATURE:
249 <221> NAME/KEY: primer_bind
250 <222> LOCATION: 5642..5661
251 <223> OTHER INFORMATION: Forward primer PB1 specific for the detection of viral
252     subgroup A of avian/leukosis sarcoma virus. Position
253     corresponds to the numbering of the RNA genome of the
254     Prague C strain of RSV.
W--> 255 <400> SEQUENCE: 19
256 ggctttaccc catacgatag                20
258 <210> SEQ ID NO: 20
259 <211> LENGTH: 21
260 <212> TYPE: DNA
261 <213> ORGANISM: artificial sequence
W--> 262 <220> FEATURE:
263 <221> NAME/KEY: primer_bind
264 <222> LOCATION: 5861..5882
265 <223> OTHER INFORMATION: Reverse primer PB2 specific for the detection of viral
266     subgroup A of avian/leukosis sarcoma virus. Position
267     corresponds to the numbering of the RNA genome of the
268     Prague C strain of RSV.
W--> 269 <400> SEQUENCE: 20

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/866,261

DATE: 06/14/2001

TIME: 11:17:21

Input Set : N:\CrF3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

L:5 M:283 W: Missing Blank Line separator, <120> field identifier  
L:6 M:283 W: Missing Blank Line separator, <130> field identifier  
L:16 M:283 W: Missing Blank Line separator, <160> field identifier  
L:22 M:283 W: Missing Blank Line separator, <220> field identifier  
L:24 M:283 W: Missing Blank Line separator, <400> field identifier  
L:34 M:283 W: Missing Blank Line separator, <220> field identifier  
L:36 M:283 W: Missing Blank Line separator, <400> field identifier  
L:46 M:283 W: Missing Blank Line separator, <220> field identifier  
L:48 M:283 W: Missing Blank Line separator, <400> field identifier  
L:58 M:283 W: Missing Blank Line separator, <220> field identifier  
L:60 M:283 W: Missing Blank Line separator, <400> field identifier  
L:70 M:283 W: Missing Blank Line separator, <220> field identifier  
L:72 M:283 W: Missing Blank Line separator, <400> field identifier  
L:82 M:283 W: Missing Blank Line separator, <220> field identifier  
L:85 M:283 W: Missing Blank Line separator, <400> field identifier  
L:95 M:283 W: Missing Blank Line separator, <220> field identifier  
L:99 M:283 W: Missing Blank Line separator, <400> field identifier  
L:107 M:283 W: Missing Blank Line separator, <220> field identifier  
L:111 M:283 W: Missing Blank Line separator, <400> field identifier  
L:118 M:283 W: Missing Blank Line separator, <220> field identifier  
L:120 M:283 W: Missing Blank Line separator, <400> field identifier  
L:130 M:283 W: Missing Blank Line separator, <220> field identifier  
L:132 M:283 W: Missing Blank Line separator, <400> field identifier  
L:142 M:283 W: Missing Blank Line separator, <220> field identifier  
L:144 M:283 W: Missing Blank Line separator, <400> field identifier  
L:154 M:283 W: Missing Blank Line separator, <220> field identifier  
L:156 M:283 W: Missing Blank Line separator, <400> field identifier  
L:166 M:283 W: Missing Blank Line separator, <220> field identifier  
L:169 M:283 W: Missing Blank Line separator, <400> field identifier  
L:179 M:283 W: Missing Blank Line separator, <220> field identifier  
L:182 M:283 W: Missing Blank Line separator, <400> field identifier  
L:192 M:283 W: Missing Blank Line separator, <220> field identifier  
L:199 M:283 W: Missing Blank Line separator, <400> field identifier  
L:206 M:283 W: Missing Blank Line separator, <220> field identifier  
L:213 M:283 W: Missing Blank Line separator, <400> field identifier  
L:220 M:283 W: Missing Blank Line separator, <220> field identifier  
L:227 M:283 W: Missing Blank Line separator, <400> field identifier  
L:234 M:283 W: Missing Blank Line separator, <220> field identifier  
L:241 M:283 W: Missing Blank Line separator, <400> field identifier  
L:248 M:283 W: Missing Blank Line separator, <220> field identifier  
L:255 M:283 W: Missing Blank Line separator, <400> field identifier  
L:262 M:283 W: Missing Blank Line separator, <220> field identifier  
L:269 M:283 W: Missing Blank Line separator, <400> field identifier  
L:276 M:283 W: Missing Blank Line separator, <220> field identifier  
L:283 M:283 W: Missing Blank Line separator, <400> field identifier  
L:290 M:283 W: Missing Blank Line separator, <220> field identifier  
L:297 M:283 W: Missing Blank Line separator, <400> field identifier  
L:304 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/866,261

DATE: 06/14/2001

TIME: 11:17:21

Input Set : N:\Crf3\RULE60\09866261.txt

Output Set: N:\CRF3\06142001\I866261.raw

L:311 M:283 W: Missing Blank Line separator, <400> field identifier

L:318 M:283 W: Missing Blank Line separator, <220> field identifier